



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Stavros C. Manolagas et al.                      Group Art Unit: 1647  
Serial No.: 10/730,751    Examiner: Shafer, Shulamith H.  
Filed: December 8, 2003    Docket No.: 110.016US1  
Title: IN VITRO AND IN VIVO MODELS FOR SCREENERING  
COMPOUNDS TO PREVENT GLUCOCORTICOID-INDUCED  
BONE DESTRUCTION

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**DECLARATION UNDER 37 C.F.R. § 1.132**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

We, Stavros C. Manolagas, Robert L. Jilka, and Robert S. Weinstein declare and say as follows:

1. We are co-inventors, along with Teresita Bellido, of the subject matter claimed in the above-identified U.S. Patent Application Serial No. 10/730,751, filed December 8, 2003, as a continuation of application no. 09/413,958, now U.S. patent no. 6,660,468, which claims priority to provisional application serial no. 60/105,805, filed on October 27, 1998.

2. We are also coauthors with A. Michael Parfitt in the cited paper Weinstein, R.S., R.L. Jilka, A.M. Parfitt, and S.C. Manolagas, (1997) "Inhibition of osteoblastogenesis and promotion of apoptosis of osteoblasts and osteocytes by glucocorticoids: potential mechanisms of their deleterious effects on bone," *J. Clin. Invest.* July 1998, 102(2): 274-278.

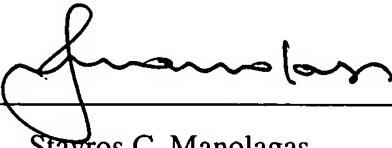
3. Each of us is a faculty member at the University of Arkansas for Medical Sciences.

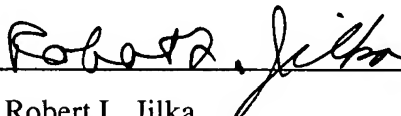
3. A. Michael Parfitt is a professor emeritus at the University of Arkansas for Medical Sciences. In the course of our conducting the research reported in the cited Weinstein et al. paper, he served as an advisor for us. He did not perform any of the experiments reported in the paper, and he did not conceive the hypothesis tested in the

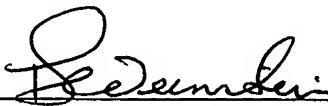
paper that glucocorticoid excess may affect the birth or death rate of bone cells, thus reducing their numbers.

4. Although Dr. Parfitt is a coauthor of the cited paper, he is not a coinventor of the subject matter disclosed therein.

5. We further declare that all statements made herein of our own knowledge are true, and that all statements made on information or belief are believed by us to be true; and further that these statements are made with knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Dated: 10-24-06 By:   
Stavros C. Manolagas

Dated: 24 Oct 06 By:   
Robert L. Jilka

Dated: Oct 24, 2006 By:   
Robert S. Weinstein